

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A wireless telephone device comprising:
  - a physical component for wireless communication; and
  - a processor coupled with the physical component, in which the processor is adapted to
    - establish an original leg of a telephone call connection using one of a CSV modality and a VoX modality;
    - transfer data of a voice conversation between the original leg and a voice channel that terminates in one of a speaker and a microphone pursuant to the telephone call connection;
    - exchange a modality handoff signal after transferring voice data over the original leg, wherein exchanging the modality handoff signal is performed over the original leg;
    - receive an address signal encoding an access address, wherein the access address identifies a handoff device;
    - make a handoff call to the handoff device responsive to receiving the address signal;
    - establish from the handoff call an alternate leg of the telephone call connection using the other one of the two modalities while the original leg is still established; and
    - then transfer data of the voice conversation between the voice channel and the alternate leg pursuant to the telephone call connection.
2. (Original) The device of claim 1, in which the processor is further adapted to:
  - couple the alternate leg with the voice channel for transferring data between them.
3. (Original) The device of claim 1, in which the processor is further adapted to:
  - tear down the original leg while transferring data of the voice conversation between the voice channel and the alternate leg.
4. (Currently amended) The device of claim 1, ~~in which the processor is further adapted to:~~
  - ~~exchange a modality handoff signal after transferring voice data over the original leg;~~
  - and

in which the address signal is received responsive to exchanging the modality handoff signal.

5. (Currently amended) The device of claim [[4]] 1, in which exchanging the modality handoff signal is performed by transmitting it over the original leg.
6. (Currently amended) The device of claim [[4]] 1, in which exchanging the modality handoff signal is performed by receiving it over the original leg.
7. (Currently amended) The device of claim [[4]] 1, in which the processor is further adapted to:  
access a registration server to learn a first address; and  
in which exchanging the modality handoff signal is performed by transmitting it to the first address.
8. (Currently amended) A network switch comprising:  
a network interface for coupling to a network; and  
a processor coupled with the network interface, in which the processor is adapted to  
establish an original leg of a telephone call connection using one of a CSV modality and a VoX modality;  
transfer data of a voice conversation between the original leg and a voice channel that terminates in one of a speaker and a microphone pursuant to the telephone call connection;  
exchange a modality handoff signal after transferring voice data over the original leg, wherein exchanging the modality handoff signal is performed over the original leg;  
receive an address signal encoding an access address, wherein the access address identifies a handoff device;  
make a handoff call to the handoff device responsive to receiving the address signal;  
establish from the handoff call an alternate leg of the telephone call connection using the other one of the two modalities while the original leg is still established; and

then transfer data of the voice conversation between the voice channel and the alternate leg pursuant to the telephone call connection.

9. (Original) The network switch of claim 8, in which the processor is further adapted to:

couple the alternate leg with the voice channel for transferring data between them.

10. (Original) The network switch of claim 8, in which the processor is further adapted to:

tear down the original leg while transferring data of the voice conversation between the voice channel and the alternate leg.

11. (Currently amended) The network switch of claim 8, ~~in which the processor is further adapted to:~~

~~exchange a modality handoff signal after transferring voice data over the original leg,~~  
and

in which the address signal is received responsive to exchanging the modality handoff signal.

12. (Currently amended) The network switch of claim ~~[[11]]~~ 8, in which exchanging the modality handoff signal is performed by transmitting it over the original leg.

13. (Currently amended) The network switch of claim ~~[[11]]~~ 8, in which exchanging the modality handoff signal is performed by receiving it over the original leg.

14. (Currently amended) The network switch of claim ~~[[11]]~~ 8, in which the processor is further adapted to:

access a registration server to learn a first address; and

in which exchanging the modality handoff signal is performed by transmitting it to the first address.

15. (Original) The network switch of claim 8, in which the processor is further adapted to:
- receive data from both the original leg and the alternate leg; and
  - combine the data received from the original leg and from the alternate leg to form a combined data stream of a single one of the CSV and VoX modalities.
16. (Original) The network switch of claim 15, in which the processor is further adapted to:
- convert the data received from one of the original leg and the alternate leg to be of the other one of the CSV and VoX modalities prior to combining.
17. (Original) The network switch of claim 15, in which the processor is further adapted to:
- determine a difference in delay between transferring data along the original leg and the alternate leg; and
  - adjusting a delay in one of the original leg and the alternate leg according to the difference.
18. (Currently amended) The network switch of claim 8, in which the processor is further adapted to:
- receive data from both the original leg and the alternate leg; and
  - analyze the exchange of data to detect a silent period to determine when to begin transferring data of the voice conversation between the voice channel and the alternate leg.
19. (Currently amended) A device comprising:
- a network interface for coupling to a network; and
  - a processor coupled with the network interface, in which the processor is adapted to
    - establish an original leg of a telephone call connection using one of a CSV modality and a VoX modality;
    - transfer data of a voice conversation between the original leg and a voice channel that terminates in one of a speaker and a microphone pursuant to the telephone call connection;

exchange a modality handoff signal after transferring voice data over the original leg, wherein exchanging the modality handoff signal is performed over the original leg;

transmit an address signal encoding an access address, wherein the access address identifies a handoff device;

receive a handoff call at the handoff device;

establish from the handoff call an alternate leg of the telephone call connection using the other one of the two modalities while the original leg is still established; and

then transfer data of the voice conversation between the voice channel and the alternate leg pursuant to the telephone call connection.

20. (Original) The device of claim 19, in which the processor is further adapted to: couple the alternate leg with the voice channel for transferring data between them.

21. (Original) The device of claim 19, in which the processor is further adapted to: tear down the original leg while transferring data of the voice conversation between the voice channel and the alternate leg.

22. (Original) The device of claim 19, in which the processor is further adapted to: receive an identity code about the original leg; and use the identity code for coupling the voice channel with the alternate leg.

23. (Currently amended) The device of claim 19, ~~in which the processor is further adapted to:~~  
~~exchange a modality handoff signal after transferring voice data over the original leg,~~  
and  
in which the address signal is received responsive to exchanging the modality handoff signal.

24. (Currently amended) The device of claim ~~[[23]]~~ 19, in which exchanging the modality handoff signal is performed by transmitting it over the original leg.

25. (Currently amended) The device of claim ~~[[23]]~~ 19, in which

exchanging the modality handoff signal is performed by receiving it over the original leg.

26. (Currently amended) The device of claim [[23]] 19, in which the processor is further adapted to:

access a registration server to learn a first address; and

in which exchanging the modality handoff signal is performed by transmitting it to the first address.

27. (Original) The device of claim 19, in which the processor is further adapted to:

receive data from both the original leg and the alternate leg; and

combine the data received from the original leg and from the alternate leg to form a combined data stream of a single one of the CSV and VoX modalities.

28. (Original) The device of claim 27, in which the processor is further adapted to:

convert the data received from one of the original leg and the alternate leg to be of the other one of the CSV and VoX modalities prior to combining.

29. (Original) The device of claim 27, in which the processor is further adapted to:

determine a difference in delay between transferring data along the original leg and the alternate leg; and

adjust a delay in one of the original leg and the alternate leg according to the difference.

30. (Currently amended) The device of claim 19, in which the processor is further adapted to:

receive data from both the original leg and the alternate leg; and

analyze the exchange of data to detect a silent period to determine when to begin transferring data of the voice conversation between the voice channel and the alternate leg.

31. (Currently amended) A device comprising:

means for establishing an original leg of a telephone call connection using one of a CSV modality and a VoX modality;

means for transferring data of a voice conversation between the original leg and a voice channel that terminates in one of a speaker and a microphone pursuant to the telephone call connection;

means for exchanging a modality handoff signal after transferring voice data over the original leg, wherein exchanging the modality handoff signal is performed over the original leg;

means for receiving an address signal encoding an access address, wherein the access address identifies a handoff device;

means for making a handoff call to the handoff device responsive to receiving the address signal;

means for establishing from the handoff call an alternate leg of the telephone call connection using the other one of the two modalities while the original leg is still established; and

means for then transferring data of the voice conversation between the voice channel and the alternate leg pursuant to the telephone call connection.

32. (Original) The device of claim 31, further comprising:

means for coupling the alternate leg with the voice channel for transferring data between them.

33. (Original) The device of claim 31, further comprising:

means for tearing down the original leg while transferring data of the voice conversation between the voice channel and the alternate leg.

34. (Currently amended) The device of claim 31, ~~further comprising:~~

~~means for exchanging a modality handoff signal after transferring voice data over the original leg, and~~

in which the address signal is received responsive to exchanging the modality handoff signal.

35. (Original) The device of claim 31, in which

exchanging the modality handoff signal is performed by transmitting it over the original leg.

36. (Original) The device of claim 31, in which  
exchanging the modality handoff signal is performed by receiving it over the original  
leg.
37. (Original) The device of claim 31, further comprising:  
means for accessing a registration server to learn a first address; and  
in which exchanging the modality handoff signal is performed by transmitting it to the  
first address.
38. (Original) The device of claim 31, further comprising:  
means for receiving data from both the original leg and the alternate leg; and  
means for combining the data received from the original leg and from the alternate leg  
to form a combined data stream of a single one of the CSV and VoX modalities.
39. (Original) The device of claim 38, further comprising:  
means for converting the data received from one of the original leg and the alternate  
leg to be of the other one of the CSV and VoX modalities prior to combining.
40. (Original) The device of claim 38, further comprising:  
means for determining a difference in delay between transferring data along the  
original leg and the alternate leg; and  
means for adjusting a delay in one of the original leg and the alternate leg according  
to the difference.
41. (Currently amended) The device of claim 31, further comprising:  
means for receiving data from both the original leg and the alternate leg; and  
means for analyzing the exchange of data to detect a silent period to determine when  
to begin transferring data of the voice conversation between the voice channel and the  
alternate leg.
42. (Currently amended) A device comprising:  
means for establishing an original leg of a telephone call connection using one of a  
CSV modality and a VoX modality;



means for transferring data of a voice conversation between the original leg and a voice channel that terminates in one of a speaker and a microphone pursuant to the telephone call connection;

means for exchanging a modality handoff signal after transferring voice data over the original leg, wherein exchanging the modality handoff signal is performed over the original leg;

means for transmitting an address signal encoding an access address, wherein the access address identifies a handoff device;

means for receiving a handoff call at the handoff device;

means for establishing from the handoff call an alternate leg of the telephone call connection using the other one of the two modalities while the original leg is still established; and

means for then transferring data of the voice conversation between the voice channel and the alternate leg pursuant to the telephone call connection.

43. (Original) The device of claim 42, further comprising:

means for coupling the alternate leg with the voice channel for transferring data between them.

44. (Original) The device of claim 42, further comprising:

means for tearing down the original leg while transferring data of the voice conversation between the voice channel and the alternate leg.

45. (Original) The device of claim 42, further comprising:

means for receiving an identity code about the original leg; and  
means for using the identity code for coupling the voice channel with the alternate leg.

46. (Currently amended) The device of claim 42, ~~further comprising:~~

~~means for exchanging a modality handoff signal after transferring voice data over the original leg, and~~

in which the address signal is received responsive to exchanging the modality handoff signal.

47. (Original) The device of claim 46 in which  
exchanging the modality handoff signal is performed by transmitting it over the  
original leg.
48. (Original) The device of claim 46, in which  
exchanging the modality handoff signal is performed by receiving it over the original  
leg.
49. (Original) The device of claim 46, further comprising:  
means for accessing a registration server to learn a first address; and  
in which exchanging the modality handoff signal is performed by transmitting it to the  
first address.
50. (Original) The device of claim 42, further comprising:  
means for receiving data from both the original leg and the alternate leg; and  
means for combining the data received from the original leg and from the alternate leg  
to form a combined data stream of a single one of the CSV and VoX modalities.
51. (Original) The device of claim 50, further comprising:  
means for converting the data received from one of the original leg and the alternate  
leg to be of the other one of the CSV and VoX modalities prior to combining.
52. (Original) The device of claim 50, further comprising:  
means for determining a difference in delay between transferring data along the  
original leg and the alternate leg; and  
means for adjusting a delay in one of the original leg and the alternate leg according  
to the difference.
53. (Currently amended) The device of claim 42, further comprising:  
means for receiving data from both the original leg and the alternate leg; and  
means for analyzing the exchange of data to detect a silent period to determine when  
to begin transferring data of the voice conversation between the voice channel and the  
alternate leg.

54. (Currently amended) An article comprising: a storage medium, the storage medium having instructions stored thereon, in which when the instructions are executed by at least one device, they result in:

establishing an original leg of a telephone call connection using one of a CSV modality and a VoX modality;

transferring data of a voice conversation between the original leg and a voice channel that terminates in one of a speaker and a microphone pursuant to the telephone call connection;

exchanging a modality handoff signal after transferring voice data over the original leg, wherein exchanging the modality handoff signal is performed over the original leg;

receiving an address signal encoding an access address, wherein the access address identifies a handoff device;

making a handoff call to the handoff device responsive to receiving the address signal;

establishing from the handoff call an alternate leg of the telephone call connection using the other one of the two modalities while the original leg is still established; and

then transferring data of the voice conversation between the voice channel and the alternate leg pursuant to the telephone call connection.

55. (Original) The article of claim 54, in which the instructions further result in: coupling the alternate leg with the voice channel for transferring data between them.

56. (Original) The article of claim 54, in which the instructions further result in: tearing down the original leg while transferring data of the voice conversation between the voice channel and the alternate leg.

57. (Currently amended) The article of claim 54, ~~in which the instructions further result in:~~

~~exchanging a modality handoff signal after transferring voice data over the original leg, and~~

in which the address signal is received responsive to exchanging the modality handoff signal.

58. (Original) The article of claim 57, in which

exchanging the modality handoff signal is performed by transmitting it over the original leg.

59. (Original) The article of claim 57, in which exchanging the modality handoff signal is performed by receiving it over the original leg.

60. (Original) The article of claim 57, in which the instructions further result in: accessing a registration server to learn a first address; and in which exchanging the modality handoff signal is performed by transmitting it to the first address.

61. (Original) The article of claim 54, in which the instructions further result in: receiving data from both the original leg and the alternate leg; and combining the data received from the original leg and from the alternate leg to form a combined data stream of a single one of the CSV and VoX modalities.

62. (Original) The article of claim 61, in which the instructions further result in: converting the data received from one of the original leg and the alternate leg to be of the other one of the CSV and VoX modalities prior to combining.

63. (Original) The article of claim 61, in which the instructions further result in: determining a difference in delay between transferring data along the original leg and the alternate leg; and adjusting a delay in one of the original leg and the alternate leg according to the difference.

64. (Currently amended) The article of claim 54, in which the instructions further result in: receiving data from both the original leg and the alternate leg; and analyzing the exchange of data to detect a silent period to determine when to begin transferring data of the voice conversation between the voice channel and the alternate leg.

65. (Currently amended) An article comprising: a storage medium, the storage medium having instructions stored thereon, in which when the instructions are executed by at least one device, they result in:

establishing an original leg of a telephone call connection using one of a CSV modality and a VoX modality;

transferring data of a voice conversation between the original leg and a voice channel that terminates in one of a speaker and a microphone pursuant to the telephone call connection;

exchanging a modality handoff signal after transferring voice data over the original leg, wherein exchanging the modality handoff signal is performed over the original leg;

transmitting an address signal encoding an access address, wherein the access address identifies a handoff device;

receiving a handoff call at the handoff device;

establishing from the handoff call an alternate leg of the telephone call connection using the other one of the two modalities while the original leg is still established; and

then transferring data of the voice conversation between the voice channel and the alternate leg pursuant to the telephone call connection.

66. (Original) The article of claim 65, in which the instructions further result in: coupling the alternate leg with the voice channel for transferring data between them.

67. (Original) The article of claim 65, in which the instructions further result in: tearing down the original leg while transferring data of the voice conversation between the voice channel and the alternate leg.

68. (Original) The article of claim 65, in which the instructions further result in: receiving an identity code about the original leg; and using the identity code for coupling the voice channel with the alternate leg.

69. (Currently amended) The article of claim 65, ~~in which the instructions further result in:~~  
~~exchanging a modality handoff signal after transferring voice data over the original leg, and~~

in which the address signal is received responsive to exchanging the modality handoff signal.

70. (Original) The article of claim 60, in which  
exchanging the modality handoff signal is performed by transmitting it over the original leg.
71. (Original) The article of claim 60, in which  
exchanging the modality handoff signal is performed by receiving it over the original leg.
72. (Original) The article of claim 60, in which the instructions further result in:  
accessing a registration server to learn a first address; and  
in which exchanging the modality handoff signal is performed by transmitting it to the first address.
73. (Original) The article of claim 65, in which the instructions further result in:  
receiving data from both the original leg and the alternate leg; and  
combining the data received from the original leg and from the alternate leg to form a combined data stream of a single one of the CSV and VoX modalities.
74. (Original) The article of claim 73, in which the instructions further result in:  
converting the data received from one of the original leg and the alternate leg to be of the other one of the CSV and VoX modalities prior to combining.
75. (Original) The article of claim 73, in which the instructions further result in:  
determining a difference in delay between transferring data along the original leg and the alternate leg; and  
adjusting a delay in one of the original leg and the alternate leg according to the difference.
76. (Currently amended) The article of claim 65, in which the instructions further result in:  
receiving data from both the original leg and the alternate leg; and

analyzing the exchange of data to detect a silent period to determine when to begin transferring data of the voice conversation between the voice channel and the alternate leg.

77. (Currently amended) A method comprising:

establishing an original leg of a telephone call connection using one of a CSV modality and a VoX modality;

transferring data of a voice conversation between the original leg and a voice channel that terminates in one of a speaker and a microphone pursuant to the telephone call connection;

exchanging a modality handoff signal after transferring voice data over the original leg, wherein exchanging the modality handoff signal is performed over the original leg;

receiving an address signal encoding an access address, wherein the access address identifies a handoff device;

making a handoff call to the handoff device responsive to receiving the address signal;

establishing from the handoff call an alternate leg of the telephone call connection using the other one of the two modalities while the original leg is still established; and

then transferring data of the voice conversation between the voice channel and the alternate leg pursuant to the telephone call connection.

78. (Original) The method of claim 77, further comprising:

coupling the alternate leg with the voice channel for transferring data between them.

79. (Original) The method of claim 77, further comprising:

tearing down the original leg while transferring data of the voice conversation between the voice channel and the alternate leg.

80. (Currently amended) The method of claim 77, ~~further comprising:~~

~~exchanging a modality handoff signal after transferring voice data over the original leg, and~~

in which the address signal is received responsive to exchanging the modality handoff signal.

81. (Original) The method of claim 80, in which

exchanging the modality handoff signal is performed by transmitting it over the original leg.

82. (Original) The method of claim 80, in which exchanging the modality handoff signal is performed by receiving it over the original leg.

83. (Original) The method of claim 80, further comprising:  
accessing a registration server to learn a first address; and  
in which exchanging the modality handoff signal is performed by transmitting it to the first address.

84. (Original) The method of claim 77, further comprising:  
receiving data from both the original leg and the alternate leg; and  
combining the data received from the original leg and from the alternate leg to form a combined data stream of a single one of the CSV and VoX modalities.

85. (Original) The method of claim 84, further comprising:  
converting the data received from one of the original leg and the alternate leg to be of the other one of the CSV and VoX modalities prior to combining.

86. (Original) The method of claim 84, further comprising:  
determining a difference in delay between transferring data along the original leg and the alternate leg; and  
adjusting a delay in one of the original leg and the alternate leg according to the difference.

87. (Currently amended) The method of claim 77, further comprising:  
receiving data from both the original leg and the alternate leg; and  
analyzing the exchange of data to detect a silent period to determine when to begin transferring data of the voice conversation between the voice channel and the alternate leg.

88. (Currently amended) A method comprising:



establishing an original leg of a telephone call connection using one of a CSV modality and a VoX modality;

transferring data of a voice conversation between the original leg and a voice channel that terminates in one of a speaker and a microphone pursuant to the telephone call connection;

exchanging a modality handoff signal after transferring voice data over the original leg, wherein exchanging the modality handoff signal is performed over the original leg;

transmitting an address signal encoding an access address, wherein the access address identifies a handoff device;

receiving a handoff call at the handoff device;

establishing from the handoff call an alternate leg of the telephone call connection using the other one of the two modalities while the original leg is still established; and

then transferring data of the voice conversation between the voice channel and the alternate leg pursuant to the telephone call connection.

89. (Original) The method of claim 88, further comprising:  
coupling the alternate leg with the voice channel for transferring data between them.

90. (Original) The method of claim 88, further comprising:  
tearing down the original leg while transferring data of the voice conversation between the voice channel and the alternate leg.

91. (Original) The method of claim 88, further comprising:  
receiving an identity code about the original leg; and  
using the identity code for coupling the voice channel with the alternate leg.

92. (Currently amended) The method of claim 88, ~~further comprising:~~  
~~exchanging a modality handoff signal after transferring voice data over the original leg; and~~  
in which the address signal is received responsive to exchanging the modality handoff signal.

93. (Original) The method of claim 92, in which

exchanging the modality handoff signal is performed by transmitting it over the original leg.

94. (Original) The method of claim 92, in which exchanging the modality handoff signal is performed by receiving it over the original leg.

95. (Original) The method of claim 92, further comprising:  
accessing a registration server to learn a first address; and  
in which exchanging the modality handoff signal is performed by transmitting it to the first address.

96. (Original) The method of claim 88, further comprising:  
receiving data from both the original leg and the alternate leg; and  
combining the data received from the original leg and from the alternate leg to form a combined data stream of a single one of the CSV and VoX modalities.

97. (Original) The method of claim 96, further comprising:  
converting the data received from one of the original leg and the alternate leg to be of the other one of the CSV and VoX modalities prior to combining.

98. (Original) The method of claim 96, further comprising:  
determining a difference in delay between transferring data along the original leg and the alternate leg; and  
adjusting a delay in one of the original leg and the alternate leg according to the difference.

99. (Currently amended) The method of claim 88, further comprising:  
receiving data from both the original leg and the alternate leg; and  
analyzing the exchange of data to detect a silent period to determine when to begin transferring data of the voice conversation between the voice channel and the alternate leg.